VOCAL ART AND THE OPERA

MORE ABOUT THE EARLY DRA-MATIC SINGERS.

They Were Evidently Great Artists -Power of Expression in Their Style of Delivery Why We Should Study It.

re campaign of education continues. ers are an interesting lot of people, they are no better than their public g in the Metropolitan Opera House Inesday evening and observing the as of the audience made one wonder it really paid after all to try to how to sing. Alice Nielsen and ri Smirnoff in "La Bohème" gave incing an exhibition of small scale the Metropolitan Opera House had itnessed, except on the memorable

ded Caraso and Sembrich in the rôles. There was solid ground for being that the great majority of the of that performance suspected hat they were listening to anything inrior to the best.

is true that there were certain very determined efforts in certain parts of the ouse to lead the applause. These efforts entirely unnecessary. The handmely gowned women in the best orseats were quite enthusiastic about Miss Nielsen, and most of them were also delighted with Mr. Smirnoff. They smote the palms of their hands together long and vigorously in order that every one might know that they were pleased with this kind of singing and interpreta-

Singers are no better than their public If this is the sort of thing this public desires, this is the sort of thing it will get. t here enters the one question upon hope may be founded. How long would the public be satisfied with small singers and narrow methods? Can it be essible that New York, which has been for so many years accustomed to listen to the great artists of the world, will settle calmly down to satisfaction with such singers as Lipkowska, Nielsen and

The "come like shadows, so depart" areers of certain predecessors of these lebrities give ground for confidence hat these too will eventually fade away into the dim past. It is idle to say that here are no better singers to be had. It true, indeed, that great vocal artists lamentably few in the world at present of operatic inpersonators with voices, resence, personality and dramatic force

It is safe to say that in the course of Meanesent generation of opera singers is et theroughly grounded in the fundaental technics of singing. It is also a t, quite easily proved, that the only to secure a thorough grounding in the indamental technics of singing is to music demands. ndy the things which the masters of technic studied.

s place to the remarkable achievements the famous male sopranists of the sevntcenth and eighteenth centuries. They were past masters of the technics of pure singing, which lies at the basis of operatic art to-day just as much as it did in the days of Stephano Landi, Alessandro Scar- own day were nurtured. latti or Handel

ngers (or men either) of to-day can say the music of the older school. that they are? How many other men oncers on the opera stage now are such ound musicians as Carl Burrian and harles Dalmores?

ay claim to the title of musician. In rated elocutionary effects, and to rely dawn of operatic art the famous on the music for expression. omen singers were musicians as well mistresses of vocal art. !One can

e mornings in the study of tone musical science. They had to be spert in counterpoint and composition, parts of operas. ev even had to write exercises in com-How many singers in or out hurch can do that in these days?

ini and Leonora Baroni were mis- to touch the heart. s s of tone emission, of colorature, sical background of their art.

the voice. A madrigal is a poly- character and the intonation inaccurate.

ation and adaptation of the vocal ted. But there were certain abuses. meat art at this period, and Archilei as much addicted to them as others Ose of these was the addition of

en Archilei sang a madrigal she beauty unadorned was adorned the

musical skill and her ability to ornament say.

her song, had the one thing without which the art of the music drama would swiftly fall to earth, namely, the power to express

To suppose, as some histories of musical art would lead us to suppose, that the element of expression entered into music at some comparatively recent date in its history is totally misleading. It was lark of the series of eleven performances to be temale as Well as Male Sopranists, and at some comparatively recent date in its inherent in the art from its birth, and it given by the Chicago Philadelphia company on developed gradually and by logical processes just as other things in music did.

For example, in the growth of the great mediaval schools of ecclesiastical conposition we should seek in vain for any definite or effective attempt at the expression of what we call human passion. It never occurred to composers to seek, by Jean Nougues, which has had such a phenon for the means of such expression for the simple reason that there was no call for it in the texts which they were engaged in composing.

The deleter of the Chicago Philadelphia company, will conduct. The eleventh week of Glullo Gatti Casazza's Metropolitan in composing.

Pathos, sadness, even tender grief, were communicated in some of their works, such as the "Improperia" of hat other star of the Boston firmation of th against Monteverde because he began to as Trist in and Messrs. Soomer, Unckley, Hinshaw, break up the peaceful harmonic back-ground against which ecclesiastic music West will be repeated on Friday evening with the ground against which ecclesiastic music so many centuries.

This audacious innovator had the temerity to introduce some simple dissonances because dissonances in music are essential to the communication of perturbed states of feeling. Musicians On Saturday evening there will be a special per smile to-day at Monteverde's gentle novelties, but they were amazing in their time, and they were the first steps along path which led to "Tristan und Isolde" and "Pelléas et Mélisande."

Nevertheless Monteverde found that he could compose music against the older harmonic background and vet reach considerable depths of pathos. A single number of his opera "Arianna" has come down to us, the famous lament "Lasciatemi morire." A contemporary composer, Marco da Gagliano, testified that this number moved the audience to tears Torn from all its associations and sung piece of arioso still reaches the heart by its lofty style and its pure expressiveness.

We shall therefore be a long distormal formula of the shall be shall the numbers as Mm. Can show three (Rheinland and Posen.) from the truth if we permit ourselves to believe that Florinda, the famous soprano who created the rale of Ariense many boars are bringing \$500 and \$250 each and but few who created the role of Arianna, was remain. Checks may be sent to the treasurer, nothing but a colorature trickster or a Rudolph Schirmer, 3 Fast Forty third street singer of deadly smooth and pallid cantia vocal music box.

be the hearing of it from the mouth of some of them will find their way to some representative modern singer. is beyond question that very few sotile it is a plain historical truth that the pranos of to-day can deliver this music Mozart's quartet in D major and Smetana's trio with that pure, limpid quality of tone, that aerial musical atmosphere, that sculpturesque elegance of cantilena, that lofty finish of phrase and that fastidiously unaffected character of pathos which the

A single intrusion of the rude attack the sputtering of consonants, the rough emphasis of contemporary declamation will ruin the effect of the whole composition. Here we meet the kind of music from which the melody of Mozart and Gluck finally developed. Here we confront the type of song upon which the world's greatest singers from 1600 to our

Before she became a great Brunnhilde Male sopranos, however, were not the Lilli Lehmann was an excellent Violetta. ly singers of those days. There were a delightful Filina, a great Donna Anna. also women singers, and they thoroughly Ternina, Nordica and Gadski were trained geschen." Loewe. knew their trade. First of all things they in a similar manner. The best of all our were musicians. How many of the women | Wagner singers are those who can sing

How difficult it is to-day to prepare a satisfactory performance of Gluck's "Or- be at the plano. feo." Why? Because all the singers wish to break the long, beautiful curves of How many of the women are as well Gluck's melody into short exclamatory oled in musical science as Sembrich phrases such as they are in the habit of Lehmann? Do not think that Lilli singing in the modern works. It takes chmann belongs to the past. She is weeks of patient drill to induce them to ablid in the active world. Few of the abandon for the time their spasmodic nen of the opera stage to-day could manner of utterance, their overelabo-

We get too much interpretation sometimes. If some of our dear friends in at some realization of this by re- the opera would lay aside their eagerness ing the methods of instruction fol- to impose on the music their important lawed in the early schools for church cheir readings and devote themselves to acquiring the most complete smoothnes Those pupils were obliged to spend and elegance of phraseology they would be astonished at the results they would diction and the technics of smooth achieve, and audiences would come to and fuent singing. In the afternoon perceive, as audiences well used to underwere required to apply themselves stand twenty years ago, that there were solid musical laws underlying the vocal

Whole volumes were made of the poems written in honor of Archilei. As for Leonora Baroni, even John Milton wrote The outcome of such training was that sonnets in her honor. None of these n the infant opera made its appear- things are astonishing, for poets have in Florence there were vocal artists sung the praises of modern singers too. feetly equipped to interpret it. Such But in all these ancient praises one finds ers as Vittoria Archilei, Francesca always tributes to the power of the singers

In reading the words of the contemsmooth captilena and of the entire poraries of these artists one cannot fail to arrive at the conclusion that the meltrehilei was the first opera prima ing of the heart was accomplished by a forma Jacopo Peri and Giulio Caccini combination of qualities and achievehaving written music to Rinuccini's ments. There is no doubt whatever when Peri's version was per- that the beauty of the instrument upon amed in 1600 and he himself sang the which the singer played had the first of Orico, Archilei sang the Euridice, influence. It would have been impossible before that, however, she had to sing "Lasciatemi morire" so as to famous as a soprano. She had ex- move the whole theatre to tears if the

composition, but the musicians That lovely emotion which is aroused in hat period had a fashion of arranging our hearts by the contemplation of sheer for one voice by entrusting to a beauty was the preparation for that tenor to two or three instruments of derer feeling which responded to the genlite or viol families the parts not the pathos in the song.

Our modern music dramas call for a as method of arranging part songs wider range of emotional expression than sung by single voice was as old at those of the early period. But we must st as Dante's time. Vittoria Archilei not forget the significant fact that music evidently highly skilled in the method atrangement, which consisted in a Our complex harmony and our lavish employment of keys and compound rhythms "s to the utterance of the instruments lengthe us to say far more than the fathers did, and that too without launching into exaggerated methods of vocal delivery.

Again and again it will have to be said that the vicious methods of declamation now injected into almost every piece of pure cantilena are largely the outcome of ually embroidered it all over with the pernicious teachings of Bayreuth. rnamental tricks of the colorature These teachings have penetrated every or of her time. She had no idea that was doing anything that she should to On the contrary, she was highly sel for her wooderful skill in adding and France have both felt the blighting. sed for her wonderful skill in adding influence of this unvocal style. Soone or or or later both of these countries must repair able reaction against this practice turn to their ancient models, must renew that Archilei and others perceived their allegiance to their own schools. The sooner they do so the better for vocal art. Germany has always led the world in creasame Archilei, with all her both France and Italy have had much to say.

ative musical genius, but in performance both France and Italy have had much to say.

W. J. HENDERSON. NOTES OF MUSIC EVENTS.

Massenet's "Thais," with Mary Garden in the title rôle. Maurice Renaud in his notable impersonation of Athanael the monk, Mmc. Bressler-Glanoll as Sister Athana and Charles Dalmores as Niclas, patron of Thais in the cast, will introduce Mr. Dippel's Chicago Philadelphia Grand Opera Tuesday evening operas belong exclusively to the French répertoire and will include Louise. Tales of Hoffmann." Pelléas et Mélisande. "Samson et Dalla." Le Jongleur de Noire Dame." Le Secret de Suzanne" and "Quo Vadis." a Pathos, sadness, even tender grief, "La Gloconds," with Mmes, Destina and Homer original cast, including Mmes. Destina and had safely and contentedly leaned for Mattheld and Messrs Caruso, Amato Gilly, Didur. Reiss De Segurola and Bourgeois. Mr. Tos-canini will conduct. "Roméo et Juliette" is the Saturday matinée offering, with Miss Farrar and Mr. Smirnoff as the lovers. Others in the cast will be Mmes. Fornia and Mattfeld and Messrs. Glily, Rothier, Hinckley, Hinshaw and Bourgeois. formance of "Die Meistersinger" for

cert, which will take place next Wednesday after noon at the Metropolitan Opera House for the benefit of the widow of the noted and popular French barytone, promises to be of exceptional interest, including as it will the names of the most famous operatic artists in the world. It will be with Mmes. Destinn and Flauhaut and MM Caruso, Renaud and Didur. Miss Mary Garden and Mr. Dalmores will probably appear in a scene from "Romeo et Juliette." Mr. Amato will sing from "Romeo et Juliette." Mr. Amato will sing an aria from "The Masked Bail," and Edmond Clement an aria from "Lakmé," Miss Geraldine We shall therefore be a long distance have also volunteered their services for this

lena. Nor must we believe that the great will be given a week from Monday night and not Caterina Martinelli, who created the title as, usual on Thursday evening. The quartet will role of Gagliano's "Daphne," was merely be assisted on this occasion by Yelanda Mero, a vocal music box. A very simple way to arrive at a rational conclusion in this matter is to study the piece itself. Better still might The programme will close with Tschaikowsky

sexiet in D minor the so called "Souventr de Florence," for two violins two violas and two 'cellos. Other numbers on the programme are in G minor for plane, violin and 'cello.

The Olive Mead Quartet will give their next concert in Mendelssohn Hall Wednesday evening

Mme. Sembrich will devote next winter to long concert tour through Europe and her song recital on Tuesday afternoon next at Carnegie Hall will offer the last opportunity in some time to hear the distinguished soprano. Her pro to hear the distinguished soprano. Her programme will comprise the following divisions and separate numbers: Classical airs and songs: "Sebben crudel," Caldara; "Luslinghe plu care," Handel; "Das Vellehen," Mozart; "Patron, das macht der Wind," Bach. Popular and folksongs: "My Lovely Cella," Monro; "I'd Be a Butterfly," Bayly; "The Coolin," Old Irish; "Les Jeunes Filiettes," French, and also Norweglan, modern Fillettes, French, and also Norweglan, modern Greek and Spanish sons. Classical German laid down four (Ersatz Aegir, Ersatz upon cast iron and upon copper, and leder: "Stille Steherheit" Franz: "Auftrage," Hagen and Ersatz Odin, battleships, and so far in these directions, there is every reason to believe that these applications Miscellaneous modern songs: "I'm Wearin' Awa " Arthur Foote

Sigismond Stojowski, in announcing a series of historical plano recitals to be given at Mendels sohn Hali on fortnightly Saturday afternoons beginning February 4, presents a view of plano literature in its development from the seventeenth and eighteenth centuries up to the present day which is unique in its interest.

Clara and David Mannes will give the third and last sonata recital for violin and plano of their Sunday evening series at the Belasco Theatre on Sunday evening, January 29, at 850, with the following programme:

Sonata in A major Rondo Brillante Sonata in D major ..... Sonata in D minor, op. 108 Brahms

Liza Lehmann will give a concert of her own afternoon.

of songs at Mendelssohn Hail to morrow after

Adele Krüger will give a song recital at Men delssohn Hali on Thursday evening. Elsa von Wolzogen will give a song recital at

Mischa Elman, the violinist, will give a recital

The Fionzaley Quartet gives the second of its series of chamber music concerts in Mendelssohn Hall next Tuesday evening. The programme will include Haydn's Quartet in G minor, op. 74, No. 3, the Adagle from Emanuel Moor's Quartet to Hugo Wolf's "Italienische Serenade" and

The Symphony Pathetique of Tschalkowsk harmonic concert this afternoon in Carnegie Hall Gustay Mahler will also offer the Goldmark Overture "In Springtime," Weber's "Invitation to the Dance," using the Weingartner orchestra tion, and Liszt's symphonic poem "Tasso. orchestra will make another road tour next week giving all Wagner concerts, with Mme. Gadsk as soloist. In Washington and Philadelphia Next Friday afternoon in Carnegle Hall, respond in the art of singing madrigals voice had been rude and inelegant in ing to the popular demand, a new Gadski Mahlet following Sunday afternoon, January 29, the ail Wagner series will be concluded with a concert at the Brooklyn Academy of Music, with Mme Gadski again as soloist. At the Friday after Gadshi again as soloist. At the Friday after-noon Wagner concert in Carnegle Hall Mme. Gadshi will sing Elizabeth's Prayer and Aria from "Tannhäuser, "the "Liebestod" from "Trisand will repeat by request tan" and will jepeat by request "Traume".
The ornestral numbers will laclude the "Parsifal".
"Vorspiel" and "Giorification," the "Ride of the
Valkyries" and "Magic Fire Scene" from the
"Walkure," the overture of the "Fising Dutch
man" and the overture and Bacchanale from

Tannhäuser."

As the Symphony Society of New York, Walter Damrosch conducting, is at present on its annual indiwinter tour, there will be no concert at the New Theatre this afternoon. During this tour, which will close in Boston on February 2 with a performance of "The Children at Betthlehem" at the Boston Opera House, the orchestra will visit eighteen cities, including Utica, Syracuse, Geneva, Akron. Oberlin, Cieveland, Detroit, Toledo, Oxford, Cincinnati, Parkersburg, W. Va.: Pitts burg, Baltimore, Washington, Meriden, Spring Beld, Hartford and Boston, Besides "The Children at Bethlehem" the principal works to be performed on the four are Goldmark's "Rustic Wedding, symphony, Mozart's Giminor symphony, Tschalkowsky's Fifth symphony, Schubert's unanished symphony and Wallace's tone poem Villon."

Sir Reynard's Misadventure

From the Philadelphia Record. Shields at Roxbury, Franklin county, just one year ago caught a gray fox in a trap, keeping the animal until the early summer of 1910, when he let his foxship run at large. A few days ago when looking over his traps he was surprised to have the same fox in his possession, caught at the very same spot as the former time. FOR WARSHIPS, \$700,000,000

COST OF THE NAVAL VESSELS

NOW UNDER CONSTRUCTION. This for Battleships and Armored Cruis- means of some undiscovered laboratory

LONDON, Jan. 11. According to the returns compiled by "Lloyd's Register of Shipping" the total number of warships now being built in the United Kingdom for the British Government is fifty-nine, the aggregate displacement being 280,665 tons. At the Government dockyards six warships are under construction for the Government (one battleship, one armored cruiser, two third class cruisers and two submarines), with a total displacement of 56,880 tons. At private yards there are five battleships, three armored cruisers, four protected cruisers, thirty-six torpedo boat destroyers and five submarines under construction, with 223,785 tons total displacement.

Statistics from another source show that the total number of battleships and armored cruisers now being built by the nations of the world is seventy, with a tonnage of about 1,500,000, representing \$700,000,000. This is exclusive of small craft.

Germany is building 152,000 tons and fitting out 125,000 tons; the United States is building 80,000 tons and fitting out tons and fitting out 110,000 tons.

table of battleships launched and comwood and Vanguard), which have been passed into commission; the Neptune, which was commissioned for service

battleships, and Von der Tann, armored certain limits of strength or strong within cruiser); France, none; United States, both strength and toughness were denone; Japan, one (Satsuma, battleship) Italy, one (San Marco, armored cruiser) Brazil, two (Minas Geraes and Sao Paulo, battleships), and Austria, one (Erzherzog vanadium.

The influence of the addition of small Franz Ferdinand, battleship).

saw the launch of the record breaking Orion, displacing 22,680 tons and armed with ten of the new 13.5 guns; and also of steel statically the battle cruiser Lion, which is to displace 26,360 tons, to steam twenty-eight knots and to carry eight of these same powerful weapons. Germany launched two ships (Olden-

burg, battleship, and Moltke, armored cruiser); France, the battleship Vergni-Florida. Japan, Austria and Greece also launched one armored ship (Kawachi, Zrinyi and Giorgio Averoff respectively); no others were launched during the year.

Lastly, as to ships laid down Great Britain claims six-the battleships Thunderer, Conqueror and Monarch and the
While the application of vanadium to
armored cruisers Princess Royal, Aussteel constitutes at present its most imderer, Conqueror and Monarch and the been commenced for the United States (Wyoming and Arkansas, battleships) and two for France (Jean Bart and Cour-Reger: "Es bet, battleships).

The following is a brief statement of "Love in May." H. Parker. Frank La Forge will construction or ordered for the leading

Launched. Stocks. Total ireat Britain

Portsmouth on January 19, 1909, and was launched on September 30, 1909. She has thus been completed for service in a week under two years.

In general details the Neptune is similar to Britain's earlier Dreadnought battle, ships, but her design embodies an important modification in respect of the disposition of the main armament. All British Dreadnoughts so far completed have ten 12 inch guns, and this is also the case with the Neptune; but whereas none of the earlier ships can fire more than eight guns on the broadside the Neptune can train all her big guns on either beam.

Arthur Young writing in 1770 reckoned the total of cattle in England at over 2, 500,000, including 684,000 draught cattle. The fact that some 4,500,000 cattle are now owned, in England indicates the change in the cattle breeding industry during a hundred years. There are no reliable figures, Sir Waiter says, to show what the horse population was at that time.

Apart from coaching, every country gentleman dreve or rode in the good old days. The farmer and commercial traveller travelled on horseback or drove a gig. Goods in out of the way parts of England words of cattle in England at over 2,-500,000, including 684,000 draught cattle. The fact that some 4,500,000 cattle are now owned, in England indicates the change in the cattle breeding industry during a hundred years. There are no reliable disposition of the main armament. All figures, Sir Waiter says, to show what the horse population was at that time.

Apart from coaching, every country gentleman dreve or rode in the good old days. The farmer and commercial travelled on horseback or drove a gig. Goods in out of the way parts of England

it, so that the latter can fire over the pass, but too narrow for carts.

new 50 calibre pattern, weighing 65 tons 17 hundredweight and each firing a shell of 850 pounds, capable (at muzzle range) of passing clean through a steel plate 40 inches thick, the Neptune is furnished with sixteen 4 inch quick firing guns for repelling torpedo attack, and with three 21 inch torpedo tubes which discharge automobile weapons that can travel 7,000 yards under water.

It has been reported that the British Admiralty was about to construct a motor.

Dreadnought. The only foundation for this report is the fact that the Admiralty has decided to experiment with oil engines fitted to an obsolescent cruiser. It is contrary to Admiralty practice, it is pointed out, to put into a first class bat-tleship engines of a type which have not been tested previously and found satis-factory in smaller vassels. Dreadnought.

From the London Daily Globe.
M. Jules Contant, the Mayor of lvry, is taking precautions for the safety of his jurisdiction against fire which have not re-

MODERN ALCHEMY. Making Steel Is Worth More to the World Than Making Gold.

From Cassier's Magazine

In the days of the mediæval alchemists it was believed that it was possible by ers Only Additions to the World's operation to convert the baser metals Navies of the Year England Has the into gold. With the development of Biggest Battleship on the Seas To-day. modern chemistry this belief was shown to be baseless, at least in the sense in which the older workers held it.

At the same time there has been evolved as a result of the work of the more recent chemists and metallurgists a transmutation in the properties of that most widely used material steel which is of far more real value to the world than any formula for making gold could ever be. The discovery that iron containing

certain proportion of carbon constituted steel transformed society and created modern civilization; without steel we should relapse into barbarism. To-day it is known that in addition to carbon there are other elements the addition of which will impart to steel certain prop-

there are several which were rare only Canada as Victoria Day. because there was not sufficient use for The fashionable trainers who find it the northeastern part of the city, its them to provide an incentive to discover natural sources of supply.

70,000 tons, and France is building 46,000 a value many times that of gold and of the Canadian climate, but the trainers The naval correspondent of the London Daily News has compiled a comparative risen immensely in importance because on the snow or ice are beneficial to the she "receive one dollar. pleted by the Powers in 1919. Armored quired of the valuable properties which it General H. and other star performers ships completed for service are taken first.

Great Britain during the year got ready five armored ships. These were the taffe that of silver because the very demand has revealed hitherto unknown three battleships provided for in the target that the same time it has fallen in cost to a point about one-half that of silver because the very demand has revealed hitherto unknown three battleships provided for in the target to discuss "the parts of Canada are as fit as those nurbulent to the manufacture of soup and bread. Later it ordered the purchase of some son son thing certain, when the first that of silver because the very demand has revealed hitherto unknown deposits.

In October, 1813, the stringency of new times it was during the war with England—led the society to discuss "the parts of Canada are as fit as those nurbulent to the nanufacture of soup and bread. Later it ordered the purchase of some son son the parts of Canada are as fit as those nurbulent to the nanufacture of soup and bread. Later it ordered the purchase of some son son the parts of Canada are as fit as those nurbulent to the nanufacture of soup and bread. Later it ordered the purchase of some son son the parts of Canada are as fit as those nurbulent to the nanufacture of soup and bread. Later it ordered the purchase of some son the parts of Canada are as fit as the sound.

which was commissioned for service to-day, and the armored cruiser Indefatigable, which has passed her trials steels, now known broadly as "carbon" but which will not be commissioned for a few weeks yet.

Against this total of five ships Germany

Against this total of five ships Germany

Book and Poem of They could be made ductile within

manded it was realized that something else in addition to carbon was essential. That something has been shown to be

Franz Ferdinand, battleship).

Great Britain also took first place as regards the launching of ships. In the spring there were launched the Hercules and Colossus, battleships of 22,350 tons, each armed with ten 12 inch guns; August saw the launch of the record breaking.

In addition it here addition of small proportions of vanadium to steel is two-fold; it acts as a scavenger, removing carried away to the slag, and it also toughens the steel directly, by its solid solution, under normal conditions, in the carbonless portion, known as ferrite. In addition it forms compiler carbides of the addition of small proportions of vanadium to steel is two-fold; it acts as a scavenger, removing carried away to the slag, and it also toughens the steel directly, by its solid solution. the carbonless portion, known as ferrite. In addition it forms complex carbides of such a nature as greatly to strengthen the

to the ordinary carbon steel as to render it practically a new material of construction, especially for situations in which shocks must be met and resisted. The combination of high strength and great toughness makes it the material above burg, battleship, and Moltke, armored all others for automobile parts as well as for railway axles and engine frames, and, and the United States the battleship for springs for the important parts of vessels and for bridges and similar struc-

for the latest types of engineering work, such as flying machines, submarines, torpedoes and similar work the possession of a material of high resistance to stresses of all kinds enables some of the most difficult elements of the work to be solved

tralia and New Zealand. Germany has portant use, it has also a marked influence

Pointer" Great Flocks of Geese.

These are in addition to completed Dreadnoughts, of which Great Britain has twelve, Germany five, the United States four, France nil and Japan one.

The super-Dreadnought Neptune, which was commissioned at Portsmouth to-day, is the biggest battleship affoat in European waters. She was laid down at Portsmouth on January 19, 1909, and was launched on September 30, 1909. She has thus been completed for service in a week under two years.

either beam.

She has three gun turrets on the centre line, one forward and two aft; and the turrets on the beam are arranged diagonally, so that they can fire on either broadside. Astern the aftermost turret is on a lower level than that immediately behind it so that the latter can fire over the pass, but too narrow for carts. were still carried on strings offpack horses

Some curious examples are supplied by The principal dimensions of the Neptune are: Length, 510 feet; beam, 85 feet; draught, 27 feet; weight of hull, 12,450 is furnished by the famous "pig pointer," tons; displacement, 19,900 tons; turbines, a black sow, which two King's keepers draught, 27 feet; weight of the state of the utilized by French truffle train young swine to find the truffles buried as they are a few inches below the soil. They were used for this purpose in England also, Sir Walter state Braybrooke kept truffe hunting pigs some fifty years ago.

Geese have gone somewhat out of fashion n these days, but formerly they were held to be the most profitable kind of poultry. Admiralty was about to construct a motor. They were raised in vast numbers in the Dreadnought. The only foundation for Lincolnshird fens. Pennant save that Lincolnshire fens. Pennant says that single person would keep as many as a thousand old birds, each of which raising pointed out, to put into a first class battleship engines of a type which have not been tested previously and found satisfactory in smaller vessels.

Great Britain is about to introduce into her navy a new type of despatch vessel capable of steaming between 38 and 40 knots an hour. Several of them will be laid down at an early date.

Seven goslings the owner at the year's a flock of some would find himself master of a flock of some tracks of fendand, before they were drained, over a thousand persons made their living out of geese. The profit of goose keeping lay in the practice of plucking. The value of the goose feathers was estimated at about a shilling a head a year, and three-laid down at an early date.

Lyry's Novel Fire Alarm.

Seven goslings the owner at the year's fendand personal history of candidates before accepting them.

It is also deemed wise to inquire into family and personal history of candidates before accepting them.

It is found that among the foreign born the Germans have the best mental make-up of feese. The profit of goose keeping lay in the practice of plucking. The value of the goose feathers was estimated at about a shilling a head a year, and three-laid down at an early date.

Lyry's Novel Fire Alarm.

Telegraph and Telephone Poles.

From the Scientific American The Census Bureau reports that in 1909

A SPORT THAT EVEN THE HORSES SEEM TO ENJOY.

Lesson for Some Trainers Who Think That the South Workouts for the Harness Horses From the First Snow.

ready for the early meetings of the Grand name adopted as given on the interior Circuit, which never opens until June is cover of the book was the Assistance almost over, should go to Canada during Society for Relieving and Advising Sick the winter months and take a leaf from and Poor Persons in the City of New the experience book of their fellow horse. York. Thirty-four were present and men of the north.

From the time the snow comes their of the society. erties increasing immensely its value as are fit to drive on the work of preparation up the lower side of Peck slip, of Ferry a material of construction and of opera- for the spring, summer and autumn street, of George's street, across the Among the substances which were majority of the tracks being scheduled Murray street to the North River, and all formerly classed as the "rare" elements to open on May 24, known throughout below these boundaries.

necessary to spend the winter months at visitor being given in part the section Memphis, Tenn., Macon, Ga., or in Cali-Thus vanadium, known as an element fornia would probably be afraid to sub- fourth Walk included "Greenwich" on for a hundred years, estimated as having ject their pets to the supposed rigors the west. used solely for a few artistic purposes in of the Northwest say that the cold, bracing coloring fabrics, has within a few years atmosphere and the short, sharp work of the knowledge which has been ac-guired of the valuable properties which it General H, and other star performers tycly to the almshouse and the poor-

deposits.

The influence of vanadium upon steel may well be regarded as a triumph of modern metallurgy, and vanadium steel mishap. There are calkins of rezor edge the largest benevolence seems to be largest benevolence seems to the modern metallurgy, and vanadium steel mishap. There are calkins of rezor edge have been the distribution of wood, has become one of the most important sharpness to held the horse firmly on the have been the distribution of wood. sharpness to hold the horse firmly on the snow or ice, and these beget confidence to an unusual degree. They are placed one at the toe crosswise and one on either flange trunning lengthwise at the heel. As the trotter or pacer marches over the frozen surface of the road or track these cut with a sharply defined "cheep, cheep," at each snow the distribution of wood. In October, 1812, eighty loads are bought, at maker a particular to the distribution of wood. In October, 1812, eighty loads are bought, at maker a particular to the distribution of wood. In October, 1812, eighty loads are bought, at maker a particular to the distribution of wood. In October, 1812, eighty loads are bought, at maker a particular to the distribution of wood. In October, 1812, eighty loads are bought, at maker a particular to the distribution of wood. In October, 1812, eighty loads are bought, at maker a particular to the distribution of wood. In October, 1812, eighty loads are bought, at an average of 16 shillings per load. The particular to the distribution of wood. In October, 1812, eighty loads are bought, at an extra per fine the distribution of wood. In October, 1812, eighty loads are bought. As particular to the particular to the force of the road or track these cut with loads and promises \$200 for purchasing more. In June, 1814, the purchase of a hundred loads is reported. In March, 1816, one hundred and fifty loads are ordered. In October, 1821, eighty loads are bought. step, and the sound of a bunch of horses the cost of 11 shillings per load, plus the racing is inspiriting. There was a time cartage For convenience this wood see ms at when horses racing over the ice drew sleighs, but it was found that the rubber as "the meeting house yard in Second tired sulky in vogue during the sammer street" and "the vard of the Duane street months was better at a temperature of leads was allotted each as it did not alide at the turns, and on the walk for distribution. half mile or other fractional courses this

Ottawa, the capital of the Dominion, are helped within a month; on November 20. especially substantial, and the Americans who have crossed the border expecting in December, 1812, it was stated that 28,000 easy game have invariably been surprised had been aided in the four years since the at the calibre of the horses. At Ottawa the course is on the Ottawa River, and thousands of enthusiasts crowd the enclosure. Speculation is unrestricted and

At Montreal and some other points the horses race over a half mile course which has been especially prepared. The surface is scraped until a bed of ice or hard snow is secured, and this is in turn sprayed and sprinkled till the desired footing is obtained. Comfortable quarters with every accommodation for man and bear are always provided, and the horses are righted day in stills where the telephone to the course of the are always provided, and the horses are is about the same as would prevail in the open in June. Naturally great care is taken that none of them catches cold, and the drivers are in their ceats before.

There is no nonsense once the base of the catches one are out upon the track.

From the Westminister Gazette.

Sir Walter Gilbey has brought together a number of interesting facts concerning the live stock of the farm. Bleeding, the stock remedy for equine ills of every kind, was practised until comparatively recent times. The Essex farmers used to bleed their animals regularly in spring and autumn as late as the year 1835, and in some districts it was continued until about 1850.

But veterinary surgery did not embrace the study of cattle and sheep diseases at all the same through the the theorem the togoth the togoth the refersible ment booth come trooping through the cattridge was placed by a building contractor who had been down and there does not come through the contractor who had been down and there does not come trooping through the profit of the same through the down and there does not come the cattridge was placed by a building contractor who had been spectators and zero weather has apparently no terrors for anybody connected

with the sport.

During the progress of a contest there is no lack of excitement and the nearness of the horses on the half mile track adds zest to the struggle. Favorite drivers are encouraged to put forth extra efforts, and the game seems made for the voluble and excitable French patron who is never still for a moment from the time the starter says "Go!" till the finishing line

starter says "Go!" till the finishing line is reached.

The only feature of the sport which is blighting in the eyes of sportsmen is the prevalence of the hobbled pacer, performers of the three legged variety being the exception. This travesty on sport is on its last legs, however, as the time limit for the use of hobbles is rapidly approaching and the number of lateral gaited performers using them will become fewer and fewer till they will finally disappear.

INSANITY IN THE NAVY. It Is Recommended That Recruits Be More Rigidly Examined.

A thorough study of the insane at the Government hospital for the insane in Washington, says the Blue jacket, prompts Passed Assistant Surgeon Butts to comment vigorously on the methods of accepting recruits.

It is found that nearly one-quarter of the insanity in the navy and Marine Corps is furnished by privates in the latter service. This is held to be caused by the Lord scant examination given by civilian physicians hired at marine recruiting stations. Even the navy medical officers are cen sured for haste in this important matter

> and it is suggested that some form of mental examination is desirable as well as a probationary service of six months to determine mental status and aptitude

From the Boston Transcript.
C. H. Brown of Malden kindled a fire in M Jules Contant, the Mayor of Ivry, is taking precautions for the safety of his jurisdiction against fire which have not received unanimous support.

He has set up a powerful siren, not at all unlike, as far as sound goes, those in use on the great liners. The alarm can be heard anywhere within a radius of six kilometers, or nearly four miles. The apparatus is not worked by steam, but by electricity. The principal ground of objection to the Mayor's proposals seems to have been based on prejudice—that the siren sounded at night would disturb the slumberers of Ivry. The Mayor, however, requires some stronger reasons before he gives heed to the mai-contents.

The Census Bureau reports that in 1909 the telegraph and telephone companies, the ting was burned out of their home and the Brown residence. Near by there is heavily some-sixth of these 7s per cent, were bought by telephone and telegraph companies. Nearly together the purchase of poles. The number of poles were subjected to the miles the greatern number of poles purchased in the previous year was 3,249,000, and of these only one-find disturb the slumberers of Ivry. The Mayor, however, requires some stronger reasons before he gives heed to the mai-contents. a parlor stove that had not been used before

RACING ON THE ICE IN CANADA EARLY METHODIST CHARITY. Church Divided City Into Seven Walks for

Looking After the Poor. New York Methodists started their first organized charity a little more than a hundred years ago. Its record is proserved in a manuscript volume brown with the Trotter Must Be Conditioned in the South—Workouts for the Methodist Historical Society of this city.

On Saturday evening, November 12, 1808, a group met in a school room at Those trainers of trotters and pacers Anthony (now Worth) and Hudson streets who find difficulty in getting their charges to form a charitable organization. The were recognized as the original members

trotters and pacers are kept at work, Into districts known as walks the entire and by Christmas, when the ice racing city was divided. At first, says the Chrisseason begins, they are ready to go as many thita City, there were four, then five, soon heats as are necessary to get the money, six and finally seven. At the outset the When the snow and ice disappear in the first walk included the whole of lower early spring the horses have a short letup. New York, as follows: Beginning at the but the moment the half mile tracks Fast River on the lower side of Peck slip. campaign is resumed, the meetings on a park, to and along the lower side of The third Walk apparently covered

"up the east side of Bowery Lane"; the With 1869 the distribution of food, cloth-

ing and fuel began. The first beneficiary mentioned was one Catharine Graham, of 81 Church street, it being ordered that

On March 4, 1812, it was reported that 1,087 had been aided since January 29; the next month 934 had been helped. In advantage could not be overlooked.

The ice meetings arranged throughout
Canada have sufficient money added to
make it worth while training and racing a
good horse. The purses and stakes at

advantage could not be overlooked.

L.087 had been aided since January 29;
the next month 934 had been helped. In
December, 1812, 3,499 "suffering individuals, were reported as aided the previous
year. On January 6, 1814, 364 individuals, establishment of the society

A Story That Got the Near Sighted Man. "While I think I am rather inclined to many thousands of dollars change hands during the meeting.

At Montreal and some other points the obviously untrue tale; but, "said the near to give to every beggar with an idle and obviously untrue tale; but," said the near sighted man, "I fell impulsively for a story

new to me this morning.
"Boss,' said this man as he looked at me. The lost my spectacles and I'm trying to get together money enough to buy

FARM STOCK 100 YEARS AGO.

There is no nonsense once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no tedious. When the borses appear to get away. The scoring therefore is no tedious. When the borses appear to get away is not tedious. When the borses appear to get away is not tedious. When the borses appear to get away is not tedious. When the borses appear to get away is not tedious. When the borses appear to get away is not tedious. When the borses appear to get away is not tedious. When the borses appear to get away is not tedious and those who have the form the specific to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are out upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are not upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are not upon the track, as all are anxious to get away. The scoring therefore is no nonsente once the borses are not upon the track, as all are anxious to get away to get a call are anxious to get away to get a call are anxious to get away to get a call are anxious to get away to get away



a charming expression, write for Dr. Pratt's won derful little book entitled "Face Value;" I will be sent you securely sealed in a plain wrapper. Free of any cost whatever.

Address Dr. W. Augustus Pratt, M. D., 112 Broadway, New York City.

MUSICAL.

SERGEI KLIBANSKY

Formerly leading singing teacher in the Stern Conservatory, Berlin. Voice Froduction, Operatic Repertoire, German Lieder, Coach for Concert Artists.

American Institute of Applied Music. Private Studio. 212 West 59th St.

**NEW YORK** German Conservatory OF MUSIC 306 MADISON AVE.

AT LOWEST RATES OF MEAN, COUTERFORM, ORGAN, ARGUST FRAEMCKE.

AT LOWEST RATES Instruction in PIANO, VIOLIN, ORGAN, HARMONY, COUTERFORM, CO

\*Terms \$10 Per Quarter SEND FOR CATALOGUE.

Institute of Musical Ar of the City of New York

FRANK DAMROSCH, Director. An Endowed School of Music.

The opportunities of the Institute are intended only for students of natural ability with an earnest purpose to do serious work, and no others will be accepted. For catalog and full information address Box 325. 120 Claremont Ave. New Y